

PTO-1449 Information Disclosure Citation In an Application	Application No.		Applicant(s) Shilin Chen	
	Docket Number 074263.0209 (SC-98-025 C3-E)	Group Art Unit Unassigned	Filing Date January 27, 2004	

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>g</i>	A	1,847,981	03/01/1932	C.E. Reed	255	71	07/23/1930
	B	2,117,679	05/17/1938	C.E. Reed	255	71	12/27/1935
	C	2,122,759	07/05/1938	F.L. Scott	255	71	07/16/1936
	D	2,132,498	10/11/1938	H.C. Smith	255	71	07/22/1936
	E	2,165,584	07/11/1939	H.C. Smith et al.	255	71	07/22/1936
	F	2,230,569	02/04/1941	J.H. Howard et al	255	71	12/20/1939
	G	2,496,421	02/07/1950	J.C. Stokes	255	71	05/07/1946
	H	2,728,559	12/27/1955	E.G. Boice et al.	255	334	12/10/1951
	I	2,851,253	09/09/1958	E.G. Boice	255	347	04/27/1954
	J	4,187,922	02/12/1980	Phelps	175	374	05/12/1978
	K	4,334,586	06/15/1982	Schumacher	175	374	06/05/1980
	L	4,343,371	08/10/1982	Baker III, et al	175	329	04/28/1980
	M	4,393,948	07/19/1983	Fernandez	175	374	04/01/1981
	N	4,408,671	10/11/1983	Munson	175	377	02/19/1982
	O	4,427,081	01/24/1984	Crawford	175	376	01/19/1982
	P	4,611,673	09/16/1986	Childers et al	175	340	11/21/1983
	Q	4,657,093	04/14/1987	Schumacher	175	353	02/03/1982

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>g</i>	R	SU 1768745 A1	10/15/1992	SU	E 21 B	10/16	X	
	S	SU 1441051 A2	11/30/1988	SU	E 21 B	10/16	X	
	T	EP 0511547 A2	04/14/1992	EPO	E 21 B	10/16	X	
	U	EP 0511547 A3	04/14/1992	EPO	E 21 B	10/16	X	
	V	EP 0511547 B1	04/14/1992	EPO	E 21 B	10/16	X	

EXAMINER <i>g</i>	DATE CONSIDERED <i>3/31/05</i>
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. PATENT AND TRADEMARK OFFICE

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U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>Sh</i>	W	4,815,342	03/25/1989	Brett et al.	76	108	12/15/1987
	X	4,848,476	07/18/1989	Deane et al	175	340	02/29/1988
	Y	5,137,097	08/11/1992	Fernandez	175	228	10/30/1990
	Z	5,197,555	03/30/1993	Estes	175	374	05/22/1991
	AA	5,224,560	07/06/1993	Fernandez	175	374	05/18/1992
	AB	5,311,958	05/17/1994	Isbell et al	175	341	09/23/1992
	AC	5,318,136	06/07/1994	Rowsell et al	175	24	03/06/1991
	AD	5,341,890	08/30/1994	Cowthorne et al	175	374	01/08/1993
	AE	5,370,234	12/06/1994	Sommer, Jr. et al	209	44.1	11/08/1991
	AF	5,372,210	12/13/1994	Harrell	175	431	10/12/1993
	AG	5,394,952	03/07/1995	Johns et al	175	332	08/24/1993
	AH	5,415,030	05/16/1995	Jogi et al.	73	151	04/08/1994
	AI	5,416,697	05/16/1995	Goodman	364	422	07/31/1992
	AJ	5,421,423	06/06/1995	Huffstutler	175	374	03/22/1994
	AK	5,704,436	01/06/1998	Smith et al	175	27	03/25/1996

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>Sh</i>	AL	GB 2241266 A	08/28/1991	GB	E21B	10/46	X	

		OTHER DOCUMENTS (Including Author, Title, Source, and Pertinent Pages)	DATE
<i>Sh</i>	AM	MA Dekun, <i>The Operational Mechanics of the Rock Bit</i> , Petroleum Industry Press, Beijing, China, (1996)	
	AN	D. Ma, D. Zhou & R. Deng, <i>The Computer Stimulation of the Interaction Between Roller Bit and Rock</i> , (1995)	
	AO	Shilin Chen, <i>Linear and Nonlinear Dynamics of Drillstrings</i> , (1994-1995)	
	AP	D. Ma, & J.J. Azar, <i>Dynamics of Roller Cone Bits</i> , (12/1985)	
	AQ	D.K.Ma & S.L. Yang, <i>Kinematics of the Cone Bit</i> , (06/1985)	
	AR	Dma & J.J. Azar, <i>A New Way to Characterize the Gouging-Scraping Action of Roller Cone Bits</i> , (1989)	
	AS	Russian bit catalog listing items "III 190,5 T-11B-1" and "III 109,5 TKZ-11B", (prior 1997)	
	AT	L.E. Hibbs, Jr., et al, <i>Diamond Compact Cutter Studies for Geothermal Bit Design</i> , (Nov. 1978)	

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U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AU	5,715,899	02/10/1998	Liang et al	175	374	02/02/1996
	AV	5,730,234	03/24/1998	Putot	175	50	05/14/1996
	AW	5,794,720	08/18/1998	Smith et al	175	40	03/25/1996
	AX	5,812,068	09/22/1998	Wisler et al	340	855.5	12/12/1995
	AY	5,813,480	09/29/1998	Zaleski, Jr., et al	175	40	12/03/1996
	AZ	5,813,485	09/29/1998	Portwood	175	430	06/21/1996
	BA	5,839,526	11/24/1998	Cisneros, et al.	175	431	04/04/1997
	BB	6,002,985	12/14/1999	Stephenson	702	13	05/06/1997
	BC	6,012,015	01/04/2000	Tubel	702	6	09/18/1997
	BD	6,021,377	02/01/2000	Dubinsky et al	702	9	10/23/1996
	BE	6,044,325	03/28/2000	Chakravarthy et al	702	7	07/21/1998
	BF	6,057,784	05/02/2000	Schaaf et al	340	854.4	09/02/1997
	BG	6,095,262	08/01/2000	Chen	175	57	08/31/1999
	BH	6,109,368	09/29/2000	Goldman et al	175	39	11/13/1998
	BI	6,213,225	04/10/2001	Chen	175	57	08/31/1999
	BJ	6,241,034	06/01/2001	Steinke et al	175	331	09/03/1998
	BK	6,401,839	06/01/2002	Chen	175	57	03/10/2000

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		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BL							
	BM							

		OTHER DOCUMENTS (Including Author, Title, Source, and Pertinent Pages)	DATE
	BN	Adam T. Bourgoyne Jr et. al., "Applied Drilling Engineering", Society of Petroleum Engineers Textbook Series (1991)	
	BO	J. P. Nguyen, "Oil and Gas Field Development Techniques: Drilling" (translation 1996, from French original 1993)	

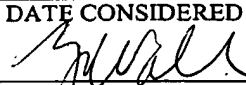
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PTO-1449		Application No.		Applicant(s)			
		Docket Number 074263.0209 (SC-98-025 C3-E)		Shilin Chen			
Information Disclosure Citation In an Application		Group Art Unit		Filing Date			
		Unassigned		January 27, 2004			
U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
34	BP	6,412,577	07/02/2002	Chen	175	57	08/01/2000
34	BQ	6,527,068	03/01/2003	Singh et al	175	431	08/16/2000
	BR						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	BS						
LITIGATION DOCUMENTS							DATE
34	BT	Plaintiff's Original Complaint for Patent Infringement and Jury Demand, filed September 6, 2002 in the United States District Court for the Eastern District of Texas, Sherman Division, Civil Action No. 4-02CV269, <i>Halliburton Energy Services, Inc. v. Smith International, Inc.</i> , 4 pages					09/06/2002
	BU	Answer and Counterclaim of Smith International, filed March 14, 2003, in the United States District Court for the Eastern District of Texas, Sherman Division, Civil Action No. 4-02CV269, <i>Halliburton Energy Services, Inc. v. Smith International, Inc.</i> , 6 pages					03/14/2003
	BV	Response of Plaintiff and Counterclaim Defendant to Defendant's Counterclaim of Declaratory Judgment, filed April 3, 2003, in the United States District Court for the Eastern District of Texas, Sherman Division, Civil Action No. 4-02CV269, <i>Halliburton Energy Services, Inc. v. Smith International, Inc.</i> , 3 pages					04/03/2003
	BW	First Amended Answer and Counterclaim of Smith International, filed October 9, 2003, in the United States District Court for the Eastern District of Texas, Sherman Division, Civil Action No. 4-02CV269, <i>Halliburton Energy Services, Inc. v. Smith International, Inc.</i> , 8 pages					10/09/2003
OTHER DOCUMENTS							DATE
(Including Author, Title, Source, and Pertinent Pages)							
	BX	"Making Hole", part of Rotary Drilling Series, edited by Charles Kirkley (1983)					
	BY	"Drilling Mud", part of Rotary Drilling Series, edited by Charles Kirkley (1984)					
	BZ	H.G. Benson, "Rock Bit Design, Selection and Evaluation", presented at the spring meeting of the pacific coast district, American Petroleum Institute, Division of Production, Los Angeles, May, 1956					
	CA	J.C. Estes, "Selecting the Proper Rotary Rock Bit", Journal of Petroleum Technology, Nov., 1971, pp1359-1367					
	CB	Sikarskie, et. al., "Penetration Problems in Rock Mechanics", American Society of Mechanical Engineers, Rock Mechanics Symposium, 1973					
	CC	Dykstra, et. al., "Experimental Evaluations of Drill String Dynamics", Amoco Report Number SPE 28323, 1994					
	CD	Kenner and Isbell, "Dynamic Analysis Reveals Stability of Roller Cone Rock Bits", SPE 28314, 1994					
	CE						
	GF						
EXAMINER	DATE CONSIDERED  3/31/05						

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U.S. PATENT AND TRADEMARK OFFICE


PTO-1449 Information Disclosure Citation in an Application	Application No. 10/765,695		Applicant(s) Shilin Chen	
	Docket Number 074263.0209 (SC-98-025 C3-E)		Group Art Unit 3672	
	Filing Date Jan. 27, 2004			

U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
SW	A 1,209,299	12/19/1916	Hughes	--	--	12/30/1914
	B 1,263,802	04/23/1918	Reed	--	--	08/13/1917
	C 1,394,769	10/25/1921	Sorensen	--	--	05/18/1920
	D 4,056,153	11/01/1977	Miglierini	175	376	07/16/1976
	E 4,627,276	12/09/1986	Burgess et al.	73	151	12/27/1984
	F 5,010,789	04/30/1991	Brett et al.	76	108.2	10/06/1989
	G 5,042,596	08/27/1991	Brett et al.	175	57	07/12/1990
	H 5,131,478	07/21/1992	Brett et al.	175	57	06/10/1990
	I 5,216,917	06/08/1993	Detournay	73	151	07/11/1991
	J RE 34,435	11/09/1993	Warren et al	175	398	03/11/1992
	K 5,305,836	04/26/1994	Holbrook et al.	175	39	04/08/1992
	L 5,456,141	10/10/1995	Ho	76	108.2	11/12/1993
	M 5,605,198	02/25/1997	Tibbitts et al.	175	432	04/28/1995
	N 5,767,399	06/16/1998	Smith et al.	73	152.11	03/25/1996
	O 6,142,247	11/07/2000	Pessier	175	340	07/19/1996
✓	P 6,348,110	02/19/2002	Evans	148	528	04/05/2000

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	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
SW	Q 1654515 A1	03/29/1988	SU	E 21 B	10/16	X	
	R 1691497 A1	05/30/1988	SU	E 21 B	10/16	X	
	S 0384734 A1	08/29/1990	EPO	E 21 B	10/46	X	
	T 2367578 A	04/10/2002	GB	E 21 B	10/56	X	
✓	U 2367579 A	04/10/2002	GB	E 21 B	10/56	X	

EXAMINER 	DATE CONSIDERED 3/31/05
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	Docket Number 074263.0209 (SC-98-025 C3-E)	Group Art Unit 3672	Docket Number 074263.0209 (SC-98-025 C3-E)	

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
3d	A	6,349,595	02/26/2002	Civolani et al	73	152.02	09/27/2000
	B	6,374,930	04/23/2002	Singh et al.	175	374	06/08/2000
	C	6,516,293	02/04/2003	Huang et al.	703	10	03/13/2000
	D	6,533,051	03/18/2003	Singh et al.	175	371	09/07/1999
	E	2004/0045742 A1	03/11/2004	Chen	175	374	03/08/2003
	F	2004/0104053 A1	06/03/2004	Chen	175	341	03/08/2003
	G						
	H						
	I						

	OTHER DOCUMENTS (Including Author, Title, Source, and Pertinent Pages)						DATE
<i>Bd</i>	J	M.C. Sheppard, et al., "Forces at the Teeth of a Drilling Rollercone Bit: Theory and Experiment", Proceedings: 1988 SPE Annual Technical Conference and Exhibition; Houston, TX, USA, Oct. 2-5, 1988, Vol. Delta, 1988, pp 253-260 18042, XP002266080, Soc. Pet Eng AIME Pap SPE 1988 Publ by Soc of Petroleum Engineers of AIME, Richardson, TX, USA					
	K	T.M. Warren et al, "Drag-Bit Performance Modeling", SPE Drill Eng. June 1989, Vol. 4, No. 2, pp 119-127 15618, XP002266079					
	L	T.M. Warren, "Factors Affecting Torque for A Roller Cone Bit", JPT J PET Technol Sept. 1984, Vol. 36, No. 10, pp 1500-1508, XP002266078					
	M	D.K. Ma, A New Method of Description of Scraping Characteristics of Roller Cone Bit, Petroleum Machinery, July, 1988 (English translations with original Chinese version attached)					
	N	Wilson C. Chin, Wave Propagation in Petroleum Engineering (1994)					
	O	Brochure entitled "Twist & Shout", (SB2255.1001), 4 pages					
	P	B.L. Steklyanov, et al, "Improving the Effectiveness of Drilling Tools," Series KhM-3, Oil Industry Machine Building, pub. Central Institute for Scientific and Technical Information and Technical and Economic Research on Chemical and Petroleum Machine Buidling, Tsintikhimneftemash, Moscow, 1991 (translated from Russian)					
	Q	Energy Balanced Series Roller Cone Bits, www.halliburton.com/oil_gas/sd1380.jsp					
	R	Ashmore, et al., Stratapax™ Computer Program, Sandia Laboratories, Albuquerque, NM , (76 pages)					
	S	F.A.S.T.™ Technology Brochure entitled "Tech Bits", Security/Dresser Industries, Sept. 17, 1993 (1 page)					

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	Docket Number 074263.0209 (SC-98-025 C3-E)	Group Art Unit 3672	Docket Number 074263.0209 (SC-98-025 C3-E)	

U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A						
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C						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
D							
E							
F							

	OTHER DOCUMENTS (Including Author, Title, Source, and Pertinent Pages)					DATE
<i>zh</i> G	Sii PLUS Brochure entitled "The PDC Plus Advantage", from Smith International (2 pages)					<i>undated</i>
<i>1</i> H	Specification sheet entitled "SQAIR Quality Sub-Specification", Shell Internationale Petroleum Mij. B.V., The Hauge, The Netherlands, 1991 (2 Pages)					
<i>1</i> I	Brochure entitled "FM2000 Series-Tomorrow's Technologies for Today's Drilling.", Security DBS, Dresser Industries, Inc., 1994 (Pages)					
<i>✓</i> J	Brochure entitled "FS2000 Series-New Steel Body Technology Advances PDC Bit Performance and Efficiency", Security DBS, Dresser Industries, Inc., 1997 (6 pages)					
K						
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EXAMINER

Y. M. Wall

DATE CONSIDERED

3/31/05

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	10/765,695	Shilin Chen	
	Docket Number	Group Art Unit	Filing Date
	074263.0209	3672	January 27, 2004

U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
3W A.	2004/0167762	08/26/04	Chen	703	10	02/26/2004
B.						
C.						
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
3W H.	CN 2082755U	8/14/91	China	E 21 B	10/50	X	
I.							
J.							

NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
3W K.	Communication of a Notice of Opposition filed October 4, 2004 with the European Patent Office	10/04/2004
L.	Communication of a Notice of Opposition filed October 21, 2004, with the European Patent Office	10/21/2004
M.	Brief Communication from European Patent Office enclosing letter from the opponent of October 13, 2004	10/22/2004
N.	Composite Catalog of Oil Filed Equipment & Services, 27th Revision 1666-67 Volume 3	1966
O.	Lecture Handouts, <i>Rock Bit Design, Dull grading, Selection and Application</i> , presented by Reed Rock bit Company	10/16/1980
✓ P.	Longer Useful Lives for Roller Bits Cuts Sharply into Drilling Costs, South African Mining & Engineering Journal, Vol. 90, pgs. 39-43	3/1979
Q.		
R.		

LITIGATION DOCUMENTS

3W S.	Memorandum Opinion of Judge Davis, signed February 13, 2004, in the United States District Court for the Eastern District of Texas, Sherman Division, Civil Action No. 4-02CV269, Halliburton Energy Services, Inc. v. Smith International, Inc., 37 pages (including fax coversheet).	02/19/2004
T.	Final Judgment of Judge Davis, signed August 13, 2004, in the United States District Court for the Eastern District of Texas, Sherman Division, Civil Action No. 4-02CV269, Halliburton Energy Services, Inc. v. Smith International, Inc., 3 pages	08/13/2004
✓ U.	Sworn written statement of Stephen Steinke and Exhibits SS-1 to SS-6	10/13/2004
V.		

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U.S. PATENT AND TRADEMARK OFFICE

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Page 1 of 1

PTO-1449

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10/765,695

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Applicant(s)

Shilin Chen

Group Art Unit

3672

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	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A						
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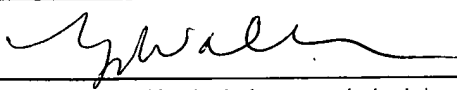
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						YES	NO
F							
G							
H							
I							

NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)		DATE
J	Rabia, H., Oilwell Drilling Engineering: Principles and Practice, University of Newcastle upon Tyne, 331 pages		1985
K	Brief Communication from European Patent Office enclosing letter from the opponent dated December 2, 2004 (074263.0281)		
L			
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